

ABSTRACT OF THE DISCLOSURE

In an image processing apparatus, a sensitivity compensation unit converts a color-and-sensitivity mosaic image into a color mosaic image. A pixel-of-interest determination unit extracts local area information from the color mosaic image. An edge-direction detector detects an edge of the local area. A G-component computing unit performs weighted interpolation in the edge direction of the green (G) component associated with a pixel of interest. A statistic computing unit computes statistic information of the local area. A first or second R-and-B-component computing unit computes the red (R) and blue (B) components of the pixel of interest on the basis of the statistic information. An inverse gamma conversion unit performs inverse gamma conversion of the red (R), green (G), and blue (B) components of the pixel of interest. The present invention is applicable to, for example, a digital still camera.